

Product datasheet for RC220054

GHRHR (NM_000823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GHRHR (NM_000823) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GHRHR
Synonyms:	GHRFR; GRFR; IGHD1B; IGHD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220054 representing NM_000823. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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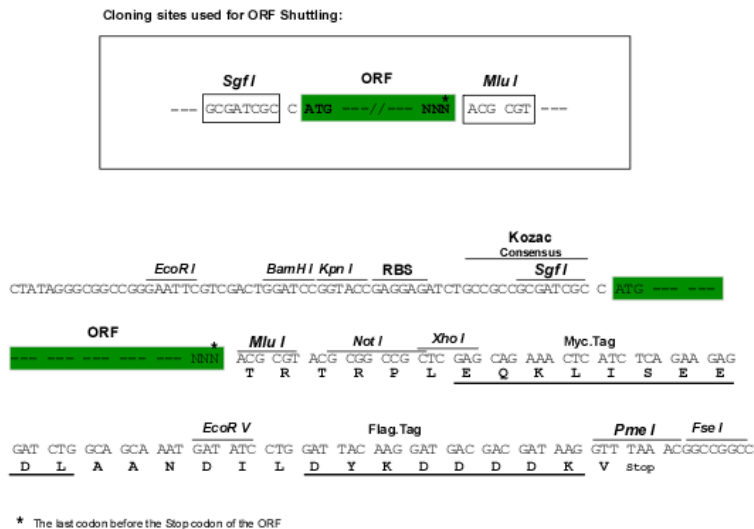
Protein Sequence: >Peptide sequence encoded by RC220054
 Blue=ORF Red=Cloning site Green=Tag(s)

MDRRMWGAHVFCVLSPLPTVLGHMHPECDFITQLREDESACLQAAEMPNTTLGCPATWDGLLCWPTAG
 SGEWVTLPCPDFFSHFSSSESGAVKRDCTITGWSEPFPPYPVACPVLELLAEEESYFSTVKIITYVGHSA
 ISIVALFVAITILVALRRLHCPRYVHTQLFTTFILKAGAVFLKDAALFHSDDTDHCSFSTVLCKVSA
 ASHFATMTNFSWLLAEAVYLNCLLASTSPSSRRAFWWLVLAWGLPVLFTGTWVSKLAFEDIACWDL
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 NFLPDNAGLGIRLPLELGLGSFQGFIVAILYCFLNQEVRTISRKWHGHDPPELLPAWRTRAKWTPSR
 AAKVLTSMC
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4909_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000823

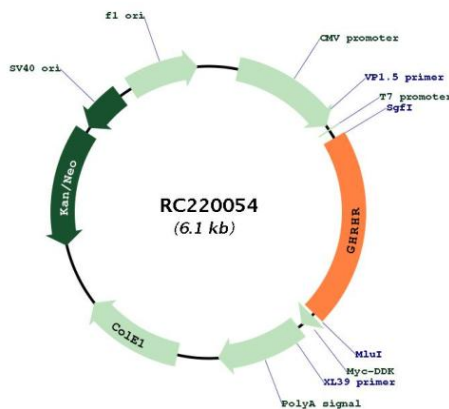
ORF Size: 1269 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq Size:	1614 bp
RefSeq ORF:	1272 bp
Locus ID:	2692
UniProt ID:	Q02643
Cytogenetics:	7p14.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	47.4 kDa
Gene Summary:	This gene encodes a receptor for growth hormone-releasing hormone. Binding of this hormone to the receptor leads to synthesis and release of growth hormone. Mutations in this gene have been associated with isolated growth hormone deficiency (IGHD), also known as Dwarfism of Sindh, a disorder characterized by short stature. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC220054